

Appl. No 10/088,059

Amendment dated February 12, 2004

Reply to Non-Final Office Action of August 25, 2003

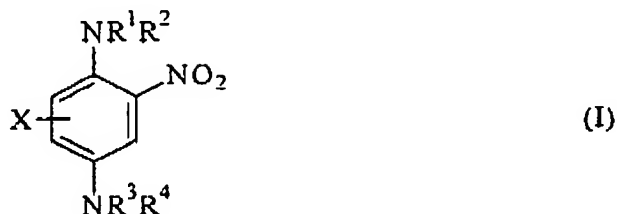
AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1.-18. (Canceled)

19. (Currently amended) A method for coloring or tinting keratin fibers comprising applying to keratin fibers a coloring or tinting composition comprising at least one 2-nitro-p-phenylenediamine derivative corresponding to formula (I) as a substantive dye:



wherein R^1 to R^4 , independently of one another, represent hydrogen, a C_{1-4} hydroxyalkyl group or a saturated, monounsaturated or polyunsaturated C_5 ring, wherein the C_5 ring is optionally substituted by a C_{1-4} alkyl group, a halogen atom, a hydroxy group or an amino group or combinations thereof, and wherein at least one of the substituents R^1 to R^4 is the C_5 ring;

wherein X is hydrogen or ~~a halogen atom~~; and

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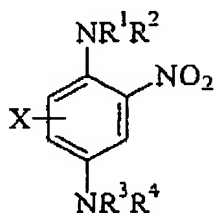
wherein the 2-nitro-p-phenylenediamine derivative makes a reddish contribution to the overall color of the keratin fibers.

20. (Canceled)

21. (Previously presented) The method of claim 19 wherein R^2 to R^4 are hydrogen.

22. (Previously presented) The method of claim 21, wherein the compound corresponding to formula (I) comprises 1-(N-cyclopentylamino)-2-nitro-4-aminobenzene.

23. (Currently amended) A composition for coloring or tinting keratin fibers in the red region comprising at least one 2-nitro-p-phenylenediamine derivative corresponding to formula (I) as a substantive dye:



(I)

wherein R^1 to R^4 , independently of one another, represent hydrogen, a C_{1-4} hydroxyalkyl group or a saturated, monounsaturated or polyunsaturated C_5 ring, wherein the C_5 ring may be optionally substituted by a C_{1-4} alkyl group, a halogen atom, a hydroxy group or an amino

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group or combinations thereof, and wherein at least one of the substituents R^1 to R^4 is the C_5 ring; and wherein X is hydrogen ~~or a halogen atom~~.

24. (Canceled)

25. (Previously presented) The composition of claim 23 wherein R^2 to R^4 are hydrogen.

26. (Previously presented) The composition of claim 25 wherein the compound corresponding to formula (I) comprises 1-(N-cyclopentylamino)-2-nitro-4-aminobenzene.

27. (Previously presented) The composition of claim 23 wherein the composition comprises at least one substantive dye different from the substantive dye of formula (I).

28. (Previously presented) The composition of claim 23 wherein the composition is free from oxidation dye precursors.

29. (Previously presented) The composition of claim 28 wherein the composition is formulated to remain on the hair.

30. (Previously presented) The composition of claim 29 wherein the composition is a hair-setting preparation.

31. (Previously presented) The composition of claim 23 further comprising at least one primary intermediate.

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32. (Previously presented) The composition of claim 31 wherein the primary intermediate comprises p-phenylenediamine, p-toluylenediamine, p-aminophenol, 1-(2'-hydroxyethyl)-2,5-diaminobenzene, N,N-bis-(2-hydroxyethyl)-p-phenylenediamine, 4-amino-3-methylphenol, 4-amino-2-((diethylamino)-methyl)-phenol, 2-aminomethyl-4-aminophenol, 2,4,5,6-tetraaminopyrimidine, 2-hydroxy-4,5,6-triaminopyrimidine, 4-hydroxy-2,5,6-triaminopyrimidine or 4,5-diamino-1-(2'-hydroxyethyl)-pyrazole, or combinations thereof.

33. (Previously presented) The composition of claim 32 further comprising at least one secondary intermediate, wherein the secondary intermediate comprises 1-naphthol, 1,5- dihydroxynaphthalene, 2,7- dihydroxynaphthalene, 1,7- dihydroxynaphthalene, 3-aminophenol, 5-amino-2-methylphenol, resorcinol, 4-chlororesorcinol, 2-chloro-6-methyl-3-aminophenol, 2-methyl resorcinol, 5-methyl resorcinol, 2,5-dimethyl resorcinol or 2,6-dihydroxy-3,4--diaminopyridine, or combinations thereof.

34. (Previously presented) The composition of claim 31 further comprising at least one secondary intermediate, wherein the secondary intermediate comprises 1-naphthol, 1,5- dihydroxynaphthalene, 2,7- dihydroxynaphthalene, 1,7- dihydroxynaphthalene, 3-aminophenol, 5-amino-2-methylphenol, resorcinol, 4-chlororesorcinol, 2-chloro-6-methyl-3-aminophenol, 2-methyl resorcinol, 5-methyl resorcinol, 2,5-dimethyl resorcinol or 2,6-dihydroxy-3,4--diaminopyridine, or combinations thereof.

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35. (Previously presented) The composition of claim 23 further comprising at least one anionic polymer, nonionic polymer or cationic polymer, or combinations thereof.

36. (Previously presented) The composition of claim 23 further comprising at least one surfactant.

37. (Previously presented) The composition of claim 23 further comprising at least one conditioning component.

38. (Previously presented) The composition of claim 23 wherein the 2-nitro-p-phenylenediamine derivative makes a reddish contribution to the overall color of the keratin fibers.